

## Test & Inspection



OFI-200

### OFI-200 Optical Fiber Identifier

NOYES Optical Fiber Identifiers are rugged, hand-held, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting or restoration, it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently-bent fiber, the unit will indicate if there is "No Signal", "Tone", or "Traffic" and identify signal direction.

The OFI-200 model is equipped with a unique two-position head design that can be configured to work with 250  $\mu\text{m}$ , 900  $\mu\text{m}$ , ribbon or jacketed fiber in seconds, without tools or adjustments. When testing coated fibers, the slim design of the OFI-200 allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator's hand. A high-impact molded plastic case makes the OFI-200 suitable for use outside plant or in the central office.

The OFI-200 is battery operated with a battery indication feature and performs thousands of tests before battery replacement is necessary.

#### Features

- Rugged, hand-held, lightweight
- Accepts 250  $\mu\text{m}$ , 900  $\mu\text{m}$  coated fiber, 3 mm jacketed fiber cable and ribbon fiber
- No head swapping or adjustments
- Identifies light carrying fiber and indicates direction of traffic
- Low insertion loss, traffic remains uninterrupted
- Indicates Tone signal visually and audibly
- 2 kHz Tone detection
- Low battery indication

#### Applications

- Live fiber identification - used during installation, maintenance, rerouting or restoration to positively identify fibers prior to cutting and splicing
- Tone detection

#### Ordering Information

INCLUDES	AFL NO.
Users guide and carry case	OFI-200D



## Test & Inspection

### OFI-200 Optical Fiber Identifier

#### Specifications <sup>a</sup>

DETECTABLE SIGNAL RANGE			
FIBER TYPE <sup>b</sup>	PARAMETER	TEST CONDITIONS <sup>c</sup>	OFI-200D
250 µm coated fiber (SMF-28 with 250 µm CPC6 coating)	Minimum level detected, average power	1310 nm, CW or Traffic	-40 dBm
		1310 nm, Tone	-43 dBm
		1550 nm, CW or Traffic	-45 dBm
		1550 nm, Tone	-50 dBm
3 mm jacketed fiber (SMF-28 with 250 µm CPC6 coating and 3 mm, yellow jacket)	Insertion loss (typical/max)	1310 nm	0.6 dB
		1550 nm	2.5 dB
3 mm jacketed fiber (SMF-28 with 250 µm CPC6 coating and 3 mm, yellow jacket)	Minimum level detected, average power	1310 nm, CW or Traffic	-30 dBm
		1310 nm, Tone	-32 dBm
		1550 nm, CW or Traffic	-33 dBm
		1550 nm, Tone	-37 dBm
3 mm jacketed fiber (SMF-28 with 250 µm CPC6 coating and 3 mm, yellow jacket)	Insertion loss (typical)	1310 nm	0.8 dB
		1550 nm	2.5 dB
OPTICAL SPECIFICATIONS <sup>d</sup>			
<b>MODEL</b>	<b>OFI-200D</b>		
Detector Type	InGaAs		
Wavelength Range	800 - 1700 nm		
Calibrated Size of Fiber and Wavelength	N/A		
Fiber Stress	<100 kPSI max		
Fiber Size	250 µm, 900 µm, ribbon, 2 mm or 3 mm and jacketed fiber		
Tone Detection	2000 ±100 Hz		
GENERAL SPECIFICATIONS			
Display Type	N/A		
Power	1 9-Volt Alkaline		
Battery Life	>10,000 operations typical		
Operation Temperature	0°C to 50°C 90 % RH (Non-condensing)		
Storage Temperature	-30°C to +60°C 90 % RH (Non-condensing)		
Dimensions (H x W x D)	22 x 3.8 x 2.8 cm (8.5 x 1.5 x 1.1 in)		
Weight	210 g (7.5 oz)		

#### Notes:

- All specifications stated above are as measured at 25°C.
- 250 µm coated fiber parameters are specified with OFI plunger in the "250/900/RIB" position.  
2 mm/3 mm jacketed fiber parameters are specified with OFI plunger in the "2 mm/3 mm" position.
- CW is a light signal that is not modulated. Traffic is a light signal modulated by a random data sequence.  
Tone is a light signal modulated into a nominal 50% duty cycle square wave.
- Unless noted otherwise, all specifications are typical. Actual results can vary by several dB depending on fiber type, coating material, jacket color, jacket hardness, and other factors.



©2015, AFL, all rights reserved. OFI1-11-2000, Revision EA, 2015-01-26  
Specifications are subject to change without notice.